

ASSIGNMENT 2

Textbook Assignment: "Basic Equipment", chapter 2, pages 2-1 through 2-71.

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| 2-1. You should maintain drafting shop tools in what condition? <ol style="list-style-type: none">1. Locked up2. Out of sight3. Clean and uncluttered4. Ready for use on the table | 2-7. What type of table covering is best suited for permanent application? <ol style="list-style-type: none">1. Cork2. Mylar3. Vinyl4. Cellulose acetate paper |
| 2-2. You must be especially cautious to protect drafting equipment from what type of abuse? <ol style="list-style-type: none">1. Dirt2. Loans3. Misadjustment4. Nicks and lacerations | 2-8. What table covering, if applied incorrectly, will snap a drawing board? <ol style="list-style-type: none">1. Cork2. Mylar3. Vinyl4. Cellulose acetate paper |
| 2-3. To protect the tabletop, it is a good practice for you to do what to a drafting table? <ol style="list-style-type: none">1. Place it out of traffic areas2. Put a cover on it3. Paint it4. Avoid using it | 2-9. You should cover a tabletop recently recovered with cork for additional protection. <ol style="list-style-type: none">1. True2. False |
| 2-4. What is the primary purpose of a worktable? <ol style="list-style-type: none">1. To prepare tracings2. To place additional reference material on3. To use as a temporary workstation at a remote site4. To keep your personal gear off the drafting table | 2-10. One of the key considerations in your selection of a drafting chair should be what feature? <ol style="list-style-type: none">1. Arms2. Color3. Rollers4. Comfort |
| 2-5. You can seriously injure yourself with a light table by using its glass surface to perform which of the following activities? <ol style="list-style-type: none">1. Tracing prints2. Leaning against it3. Drawing pictures4. Assembling negatives | 2-11. When you arrange light for a left-handed draftsman, the light source should emanate from what direction? <ol style="list-style-type: none">1. Back2. Upper left3. Upper right4. Directly overhead |
| 2-6. A tabouret serves which of the following functions? <ol style="list-style-type: none">1. As workstation at a site away from the shop2. As additional reference material3. As a coffee mess station4. As a storage unit | 2-12. You should attach a light source to a table based on the right- or left-handedness of the DM for what reason? <ol style="list-style-type: none">1. To minimize shadows cast by the DM's hands2. To keep the light out of the DM's way3. To avoid conflict with the straightedge4. To keep the working side of the table free of clutter |

- 2-13. Approximately what minimum time does it take a hand waxer to reach operating temperature?
1. 5 minutes
 2. 10 minutes
 3. 15 minutes
 4. 20 minutes
- 2-14. A tabletop waxer should be a minimum of how full before you turn it on?
1. 1/4 full
 2. 1/3 full
 3. 1/2 full
 4. 2/3 full
- 2-15. Exactly, how many times should you run a sheet of paper through a waxer to ensure even coverage?
1. One
 2. Two
 3. Three
 4. Four
- 2-16. What amount of time should you wait after changing the temperature setting on a tabletop waxer before running your paper through again?
1. 10 minutes
 2. 20 minutes
 3. 30 minutes
 4. 40 minutes
- 2-17. When using a paper cutter, individuals tend to make what common mistake?
1. Cutting film
 2. Cutting cardstock
 3. Cutting too much material
 4. Cutting too little material
- 2-18. You should draw the cutting arm down on a paper cutter in what manner?
1. Slowly in one stroke
 2. Swiftly in one stroke
 3. Swiftly in rapid strokes
 4. Carefully in rapid strokes
- 2-19. Your failure to engage the safety catch at the base of the paper cutter will result in damage to what component?
1. The spring mechanism
 2. The cutter board
 3. The tabletop
 4. The safety catch
- 2-20. A drafting machine combines the functions of which of the following pieces of drawing equipment?
1. Straightedge, scale, and dividers
 2. Template, T-square, and straightedge
 3. parallel ruler, protractor, and triangle
 4. Radius curves, template, and straightedge
- 2-21. You attach the removable scales to the scale mechanism of a drafting machine by what means?
1. Phillips head screws
 2. Dovetail fittings
 3. Elongated screws
 4. Pipe fittings
- 2-22. The elongated screws that hold the dovetail fittings to the scales of a drafting machine serve what purpose?
1. To attach the scales
 2. To adjust the scale length
 3. To make slight angular adjustments
 4. To align the scale on the drafting board
- 2-23. Which of the following is/are advantage(s) of the parallel straightedge?
1. Ideal use in tight quarters
 2. Simple to adjust and care for
 3. Useable by both left- and right-handed DMs
 4. Each of the above
- 2-24. The most commonly used T-square has a blade of what length?
1. 15 inches
 2. 24 inches
 3. 36 inches
 4. 42 inches
- 2-25. What should you do when a T-square becomes out of true or damaged?
1. Hang it up
 2. Tell the LPO
 3. Throw it away
 4. Sand down the edge
- 2-26. How should you store a T-square when you are not using it?
1. Leave it hanging up
 2. Place it upright in a corner
 3. Place it under the tabletop
 4. Place it on a shelf in a locker

- 2-27. What is the purpose of a steel straightedge?
1. To cut straight lines
 2. To draw straight lines
 3. To tear paper
 4. To weigh down paper
- 2-28. Why should you store drafting instruments in their original case?
1. To present a neat and orderly appearance
 2. To have a place to put them in
 3. To protect the instruments from corroding
 4. To keep the instruments out of sight
- 2-29. What is the purpose of proportional dividers?
1. To draw circles
 2. To transfer measurements
 3. To step off equal distances
 4. To transfer irregular curves
- 2-30. What is the purpose of a set of dividers?
1. To transfer irregular curves
 2. To step off equal distances
 3. To divide arcs and circles
 4. To draw circles
- 2-31. What is the purpose of a compass?
1. To draw arcs and circles
 2. To draw irregular curves
 3. To divide arcs and circles
 4. To step off equal distances
- 2-32. What distance beyond the leg of the compass or divider should the needlepoint project?
1. 1/64 inch
 2. 1/32 inch
 3. 3/64 inch
 4. 1/8 inch
- 2-33. What drawing instrument should you select to draw a circle exceeding 64 inches in diameter?
1. A standard compass with an extension
 2. A hollow compass
 3. A beam compass
 4. A drop bow
- 2-34. What drafting instrument should you select to draw a circle 1/8 inch in diameter?
1. A set of bow dividers
 2. A drop bow pen
 3. A compass
 4. A bow pen
- 2-35. Which of the following is a feature of the Swede pen?
1. Broad nibs
 2. Parallel nibs
 3. Extremely curved nibs
 4. Hollow handle on a swivel base
- 2-36. The contour pen is best suited for what purpose?
1. To create straight lines
 2. To use greater ink capacity
 3. To create freehand, curvilinear lines
 4. To create parallel lines of equal or differing width
- 2-37. Which pen should you select to draw parallel lines of equal or differing widths?
1. Swede pen
 2. Detail pen
 3. Contour pen
 4. Railroad pen
- 2-38. Needlepoints for compasses and dividers are available in which of the following shapes?
1. Blunt
 2. Tapered
 3. Shouldered
 4. Tapered and shouldered
- 2-39. What is the purpose of a center disk?
1. To stabilize the compass or dividers
 2. To mark the center of the item being drawn
 3. To prevent overenlarging a compass hole
 4. To mark the center of the circle being drawn
- 2-40. Exactly how far up the nib should you fill a pen with ink?
1. 3/16 inch
 2. 1/2 inch
 3. 9/16 inch
 4. 1 inch
- 2-41. Before using a new pen nib, what should you do to the nib surface?
1. Moisten it
 2. Oil it slightly
 3. Sand it slightly
 4. Marinate it in ink

- 2-42. In a reservoir pen, what component regulates the flow of ink?
1. The feed tube
 2. The clamp ring
 3. The conical tip
 4. The weighted needle
- 2-43. When you leave reservoir pen parts in an ultrasonic cleanser too long, what is the result?
1. Bent nibs
 2. Extra clean pens
 3. Melted plastic parts
 4. Cracked plastic parts
- 2-44. You should keep uncommon tools in commonly accessible places.
1. True
 2. False
- 2-45. A combination of a 30/60- and a 45-degree triangle can produce a total of how many other angles?
1. 10
 2. 11
 3. 12
 4. 13
- 2-46. What type of angle is drawn with the adjustable triangle?
1. Obtuse
 2. Regular
 3. Irregular
 4. Supplementary
- 2-47. The flat segment on a radius curve is known by what term?
1. A flat
 2. A radius
 3. A tangent
 4. A straightedge
- 2-48. What is the purpose of a french curve?
1. To draw irregular or noncircular curves
 2. To draw the curvature of a ship
 3. To draw logarithmic curves
 4. To draw parabolic curves
- 2-49. What is the dimension of the minimum, radius of a flexible curve rule?
1. 1 inch
 2. 1 1/2 inches
 3. 2 inches
 4. 2 1/2 inches
- 2-50. When you draw an irregular curve with a french curve, to what number of points of contact should the french curve correlate?
1. One
 2. Two
 3. Three
 4. Four
- 2-51. Which of the following drafting instruments should you use to lay off an angle from a horizontal base?
1. A T-square
 2. A protractor
 3. Dividers
 4. A compass
- 2-52. In laying off an angle from a horizontal base, to what number of points of reference should you use?
1. One
 2. Two
 3. Three
 4. Four
- 2-53. What type of material is NOT suitable for making a template for repeated or extended use?
1. Heavy acetate
 2. Sheet metal
 3. Cardboard
 4. Paper
- 2-54. What is the purpose of an ink riser?
1. To prevent the ink from bleeding under a drawing aid
 2. To prevent the DM from abrading the surface of a drawing
 3. To allow the DM to create cleaner drawings
 4. To allow the DM to use a template repeatedly without wearing it down
- 2-55. What is the purpose of a scale clip?
1. To enable quick pickup of the scale
 2. To keep pencils within easy reach
 3. To focus attention on the scale face in use
 4. To slide the scale along a drawing board

- 2-56. It is as convenient to measure from left to right as it is from right to left through the use of what scale?
1. Open division
 2. Full division
 3. Double numbering
 4. Single numbering
- 2-57. What scale on a triangular architect's scale indicates full inches?
1. 3/16
 2. 1
 3. 3
 4. 16
- 2-58. What scale is ideal for making graphs or decimal measurements?
1. The architect's
 2. The civil engineer's
 3. The railroad engineer's
 4. The mechanical engineer's
- 2-59. To measure accurately with a scale, you should take which of the following actions?
1. Lay the scale against your straightedge
 2. Slide a sharp pencil lead carefully down the graduation groove
 3. Make the drawing surface with the increment
 4. All of the above
- 2-60. What is the ratio of the measurements on the drawing to the same measurements on the actual object known as?
1. The equation
 2. The scale
 3. The ratio
 4. The rule
- 2-61. What factor dictates the size of a brush?
1. The bristle thickness
 2. The ferrule or quill
 3. The bristle length
 4. The handle
- 2-62. Red sable brushes are generally used for what medium?
1. Acrylic color
 2. Enamel color
 3. Water color
 4. Oil color
- 2-63. What bristle is suitable for use with oils and acrylics?
1. Ox hair
 2. Red sable
 3. Camel hair
 4. Both 2 and 3 above
- 2-64. After cleaning brushes dedicated to oil-based paints and before storing them, what action should you take?
1. Reshape the bristles
 2. Curl the bristles to the right
 3. Wash them thoroughly with water
 4. Add a drop of oil to the bristles
- 2-65. How should you store brushes once you wash them?
1. Place them back in the desk drawer
 2. Place them on the bristles
 3. Place them upright on the handles
 4. Place them on a locker shelf
- 2-66. What determines the rating or grade of a pencil?
1. The diameter of the lead
 2. The composition of the lead
 3. The hardness of the lead
 4. The composition and hardness of the lead
- 2-67. Of the following pencil grades, what is most suitable for technical or precise drawing?
1. B to 3H
 2. F to 2H
 3. 4H to 6H
 4. 6B to 2B
- 2-68. What is the main difference between a graphic pencil and a carbon pencil?
1. A graphite pencil is dense black; a carbon pencil is not
 2. A graphite pencil reflects light; a carbon pencil does not
 3. A carbon pencil is affected by humidity the graphite pencil is not
 4. A carbon pencil leaves a residue; the graphite pencil does not
- 2-69. When relative humidity is high, what pencil should you select to replace a 2B pencil?
1. 2H
 2. 3B
 3. 4B
 4. 6B

- 2-70. Why should you use a sky-blue pencil to mark a board before photographing it on black-and-white film?
1. Because no colored marks reproduce on black-and-white film
 2. Because sky-blue lead fades under the intense light of the camera
 3. Because photographic black-and-white films are blind to sky-blue
 4. Because sky-blue pencil leads are wax-based and melt under the camera lights
- 2-71. Why must you constantly move an electric eraser over an error in a circular pattern instead of concentrating on it?
1. To lighten the image area around the error
 2. To prevent damage to the paper surface
 3. To keep your wrist from tiring
 4. To blend in the correction
- 2-72. What eraser should you use to pick out highlights in a drawing?
1. A plastic eraser
 2. A kneaded eraser
 3. An art gum eraser
 4. Pulverized eraser particles
- 2-73. What is the purpose of an erasing shield?
1. To isolate areas you want to erase
 2. To shave eraser particles away from the drawing
 3. To protect the eraser from dirt on the drawing
 4. To protect the drawing surface you do not want to erase
- 2-74. What is the purpose of a stump or tortillon?
1. To blend pencil, charcoal, pastels, and crayons
 2. To blend color and ink washes
 3. To mix binders with pigments
 4. To mix pigments
- 2-75. To make sure you are making a clean and accurate cut, when should you change the blade in the knife?
1. Daily only
 2. Weekly only
 3. Monthly only
 4. As often as you feel the blade needs changing